



Area for learning	Focus	Activities	Useful Websites/Apps
English 1 st Language	To enable learners to analyse various texts and relevant ideas to complete the given task.	 Analyse and complete the given past paper in the link 	IGCSE English 0500/22 Paper 2 Feb/Mar 2021 (gceguide.com) IGCSE English 0500/22 Insert Feb/Mar 2021 (gceguide.com)
English 2 nd Language	To enable students to formulate given tasks by analysing appropriate information.	 Analyse and complete the given past paper in the link 	IGCSE English 0500/22 Paper 2 Feb/Mar 2021 (gceguide.com) IGCSE English 0500/22 Insert Feb/Mar 2021 (gceguide.com)
English Literature	To introduce learners to poetic styles and devices.	Analyse the themes of any 1 poem done in class and compare them with another poem written by the same poet	How to read and understand poetry: IGCSE - Bing video
Mathematics Additional	 Circular measure and Trigonometry Use relationship between radians and degrees Use formulae for arc length and sector area of a circle 	Identify the units commonly used for angles. Why the use of radians? Find the exact values of trigonometric functions. Deduce a way to remember these.	https://www.intmath.com/trigonometri c-functions/8-applications-of- radians.php https://en.wikibooks.org/wiki/High_Sc hool_Trigonometry/Applications_of_ Radian_Measure





	 Prove trigonometric identities and solve trigonometric equations Analyse and solve problems on application of radian measures 	Write down the steps required to solve three different trigonometric equations.Solve examination questions on Trigonometry and radians, self marking using CIE marking scheme and taking corrective measures.	https://www.intmath.com/trigonometri c-functions/8-applications-of- radians.php https://en.wikibooks.org/wiki/High_Sc hool_Trigonometry/Applications_of_ Radian_Measure
			https://www.purplemath.com/module s/solvtrig.htm https://www.bbc.co.uk/bitesize/guide s/zpkdd2p/revision/1 http://www.sosmath.com/algebra/sol
Mathematics Extended	 Travel graphs Learning objective: To calculate speed, distance and time from distance-time graphs. 	 Construct travel graphs given the speed and time and calculate the average speed of the return journey. 	ve/solve0/solvtrig.html https://www.youtube.com/watch?v =2b3Dk3zViQE https://www.youtube.com/watch?v =9aVSe7B94Fk https://www.youtube.com/watch?v =YrhfrsC9_1Q





	 To calculate acceleration and total distance from speed-time graphs. To construct travel graphs Mensuration To calculate the surface area and volume of 2D & 3D shapes, prisms and pyramids Trigonometry To apply sine and cosine rules to calculate the length of the missing side or angle To calculate the area of a non-right-angled triangle 	 Determine how would you calculate the surface area that you need to coat with glue, when the outsides of purple traps are coated with glue to catch emerald ash borers. You need to make your own trap in the shape of a rectangular prism with an open top and bottom? A keychain-sized puzzle cube is made up of small cubes. Each small cube has a surface area of 1.5 square inches. a. What is the side length of each small cube? b. What is the surface area of the entire puzzle cube? Research : A surveyor makes the measurements shown to determine the length of a bridge to be built across a small lake from the North Picnic Area to the South Picnic Area. Find the length of the bridge. 	https://www.youtube.com/watch?v =LJctqrA9jhU&t=410s https://www.youtube.com/watch?v =0m_Qlqly1hs&t=1s https://www.youtube.com/watch?v =rE6HNwmGHVs&t=2s https://www.youtube.com/watch?v =2uJaskNtkKo https://www.youtube.com/watch?v =M3MRn9-e7Ks https://www.youtube.com/watch?v =zAEcdfePiPg
Statistics	Probability distributions: Standardised Scores	https://www.mathsgenie.co.uk/papers/stats/qualityassuranceans .pdf https://www.bbc.co.uk/bitesize/guides/zr3gkqt/revision/2	https://www.youtube.com/watch?v=lr 4wjrw3Zxc https://www.youtube.com/watch?v=1 _icqA0ZkGU





	Apply standardised scores to compare two	https://corporatefinanceinstitute.com/resources/knowledge/other	
	samples of data	/quality-control-charts/	https://www.mathsgenie.co.uk/statisti
	Understand the process of quality assurance and calculate warning limits and action limits for means.		<u>cs.html</u> <u>https://getrevising.co.uk/resources/g</u> <u>cse_statistics_chapter_8_summary_</u> <u>probability_distributions_and_quality</u> _assurance
Physics	 Electromagnetic Induction Analyse the factors affecting magnitude and direction of an induced e mf Demonstrate the working of transformer Revision for Premock 	 Do research on the uses of electromagnets in day-to-day life Use simulation to explain the working of transformer Demonstrate knowledge of how to safely use apparatus, materials and planning an experiment 	www.skool.co.uk www.lslandphysics.com www.cie.org.uk https://www.e4training.com/eddy/sim ulate9.html https://interactives.ck12.org/simulatio ns/physics/ac- transformer/app/index.html





Chemistry	Factors affecting rate of reactionTo outline the effect of concentration, particle size, catalysts (including enzymes) and temperature on the rate of reactionsChemical energeticsTo investigate the energy change in a given reaction To compare exothermic and endothermic reactions	 Make an infographic poster to elaborate the various factors affecting the rate of a chemical reactions with suitable examples Design an experiment to determine the energy change during an exothermic/endothermic reaction using appropriate chemical reactions. Draw labelled energy profile diagrams for exothermic and endothermic reactions 	https://www.physicsandmathstutor.c om/physics-revision/igcse-cie/ • Effect of light - Changing rates - GCSE Chemistry (Single Science) Revision - Other - BBC Bitesize • https://igcsechemrevision.wo rdpress.com/section-4/b- energetics/ • https://www.bbc.co.uk/bitesi ze/guides/z8p72hv/revision/ 1
Biology	 Biotechnology Describe the role of anaerobic respiration in yeast during production of ethanol for biofuels. 	 Explain that DNA can be cut in certain places using different restriction enzymes to select the correct gene. 	https://www.youtube.com/watch?v=E Qu4MSIPVwY





	 Describe the role of anaerobic respiration in yeast during breadmaking Define <i>genetic engineering</i> as changing the genetic material of an organism by removing, changing or inserting individual genes. Describe the role of anaerobic respiration in yeast during production of ethanol for biofuels and bread making. Elaborate the procedures involved in genetic engineering. 	 If the same restriction enzyme is used to cut the bacterial DNA then the ends of the human and bacterial DNA will stick together. Schematically explain how genetically modified organisms are made. Make a poster depicting the pros and cons of Biotechnology 	https://www.youtube.com/watch?v=6 C6IPfQbtek https://www.youtube.com/watch?v=Ii -RkMwFSIQ
Food and	Frozen foods	Compare the nutritional information and benefits between Fresh	https://www.nestle-
Nutrition	Herbs and Spices	and Frozen food. Note the meals with frozen foods from different	family.com/en/article/key-keeping-
	Leftover Food	countries including UAE.	frozen-food-fresh
		Note the Origin of Herbs and spices and how is the spice trading	https://ivaluefood.com/resources/coo
		down in UAE	king-eating/creative-ways-to-use-
			leftovers/





		Food is something we all take for granted and it is easy to forget how much food we waste. Find how much food is wasted in your community and in UAE. Help to combat the Food wastage.	https://www.britannica.com/topic/list- of-herbs-and-spices-2024392
Economics	 define inflation and deflation analyse the measurement of inflation and deflation using the Consumer Prices Index evaluate the causes of inflation and deflation for consumers, workers, savers, lenders, firms and the economy as a whole analyse the range of policies available to control inflation and deflation evaluate the effectiveness of different policy measures to control inflation and deflation Revision for the Pre-Mock examination 	Learners define inflation and deflation. Learners with recent price data (e.g. the price index for a specific country) will calculate rates of inflation/deflation. They should plot the data both for the price index and the rate of inflation and annotate these graphs to show periods of inflation/deflation/rising or falling prices. They can then explain the difference between a fall in the rate at which the general price level is rising and a fall in the price level itself. (I) Learners with numerical exercises can practice calculating price indices. They will explore how the Consumer Price Index is used to calculate the rate of inflation. Extension activity : Learners research how their own country's consumer price index is calculated. They should consider how weights differ between countries and over time and the question	http://www.bbc.co.uk/news/business- 22523612 https://www.cia.gov/the-world- factbook/countries/united-arab- emirates/#economy https://data.oecd.org/price/inflation- cpi.htm https://pinkmonkey.com/studyguides/ subjects/eco/cbap3/e0303301_asp





of how accurately a consumer price index measures inflation. earners decide whether the scenarios are of demand-pull or cost- push inflation, from a set of scenarios, e.g. a firm increases prices in response to an increase in orders received; a rise in the price of oil increases the cost of delivering parcels In groups, learners discuss how different groups, e.g. the retired, the government, exporters, savers, borrowers, members of trade unions and workers with weak bargaining power are affected by inflation and deflation.	
In groups, learners explore how fiscal, monetary and supply-side policies is used to reduce inflation (both demand-pull and cost- push) or correct deflation. Extension activity: Learners explore the implications of these policies for the government's other macroeconomic objectives and then recommend the best set of policies that should be used. Topic based revision from Unit 1, 2, 3 and 4.	





 Accounting To recognize the advantage disadvantages of partners To prepare relevant finance statement pertaining to pa businesses. 	how a partnership business is different from sole trading business.	www.dineshbakshi.com www.cie.org.uk www.myaccountinglab.com
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Business	-People in business	To apply their knowledge and critical understanding to	https://www.bing.com/search?q=dyn
Studies	-Marketing	current issues and problems in a wide range of	amic+paper&cvid=8870c3d1768142
	Operations management	business contexts.	0197bec1389df151ef&aqs=edge69i
		To make effective use of relevant terminology,	<u>57j0l7j69i65j69i11004.3894j0j1&pglt</u> =41&FORM=ANNAB1&PC=U531.
		concepts, and methods, and recognize the strengths	
		and limitations of the ideas used in business.	Complete CIE (0452) Business
		To develop knowledge and understanding of the major	Studies IGCSE Past Paper
		groups and organizations within and outside business,	Categorised Questions - GCSE
		and consider ways in which they are able to influence	Business
		objectives, decisions, and activities.	
		 To develop an awareness of the nature and 	
		significance of innovation and change within the context	
		of business activities.	
Travel and	To apply knowledge and	 Investigate the social, cultural, economic and 	Cambridge IGCSE Travel and
Tourism	understanding to select relevant	environmental impact of travel and tourism.	Tourism (Cambridge University Press) Text Book.
	data, recognise patterns and	Explain the features of worldwide destinations.	Fless) Text Dook.
	analyse evidence.	 Analyse the essential personal skills required when 	
		working in the travel and tourism industry	





	 To discuss and evaluate choices, and make reasoned decisions, recommendations and judgements with valid conclusion. 	 Explain the role and function of marketing and promotion in the travel and tourism industry. Analyse and evaluate market research techniques implemented by travel and tourism organisation 	<u>https://papers.gceguide.com/Cambri</u> <u>dge%20IGCSE/Travel%20&%20Tou</u> <u>rism%20(0471)/</u> <u>https://schoolsupporthub.cambridgei</u> <u>nternational.org/past-exam-</u> papers/?keywords=0471
Sociology	Culture Identity and Socialisation	To what extent is the media the most effective agency of secondary socialisation? Explain how norms vary in a multicultural society	https://backnotes.com/igcse/sociolog y-0459/culture-identity-and- socialization/ Sociology Course Book – Jonathan Blundell
Psychology	The self	Concepts of self and self-concept. Erikson's stages of identity / psychosocial development	Edexcel textbook, useful websites: https://courses.lumenlearning.com/te achereducationx92x1/chapter/erikso ns-stages-of-psychosocial- development/ https://www.simplypsychology.org/Er ik-Erikson.html





			https://www.simplypsychology.org/ca rl-rogers.html
Geography	Rivers Landforms produced by river erosion and deposition.	. Use the internet to investigate the landforms produced by rivers. Create a A3 size poster to show the formation of the following landforms: Waterfalls Meanders and Ox-bow lakes The flood plains. All work should be in your own hand writing except for images. Include relevant diagrams.	http://www.bbc.co.uk/education/gcse bitesize/index.shtml www.geographylwc.org.uk www.geographypages.com www.geographygeek.co.u www.revisionworld.co.uk/level/geogr aphy www.s-cool.co.uk http://www.gatm.org.uk/
History	How secure was the USSR's control over eastern Europe, 1948-1989?	 Students will research about USSR's control over Eastern Europe and answer the questions below. 	https://youtu.be/nZdw7O7jdEA





Global Perspectives	Migration	 How successfully did the Soviet Union deal with the challenges in Eastern Europe to communist control between 1956 and 1981? Explain your answer. How far was the collapse of Soviet control over Eastern Europe due to influence of solidarity? Explain your answer Why do people Emigrate. Look at the effects of Immigration. 	http://bit.ly/2IZYI22
		 Migration will have both positive and negative impacts on both the host and original country. 	
Environmental Management	Natural Ecosystem and Human Activity	 Causes and impact of habitat loss. Causes and impact of deforestation. Need for sustainable management. 	https://www.sciencedirect.com/scien ce/article/pii/S0921800906003806
ICT	Topic Theory : Revision on applications of ICT • Expert systems • Recognition systems	Create presentations and past paper practise. Evaluate the use of online services, expert systems in the real- life context.	www.teach-ict.com www.igcseict.info https://www.yahmad.co.uk





	 Online services Practical: Spreadsheets To use vlookup, nested if statements, insert charts in Excel. Use formatting and page set up features in Excel Database: To use queries and reports in Access Perform run time calculations in reports and queries 	Assess the ways in which online services are used in our daily lives.	
Computer Science	Topic: Automated System Learning Objective: • To describe the advantages and disadvantages of Automated systems.	A company manufactures fizzy drinks that are then labelled and bottled: The system is fully automatic. Sensors are used to ensure the correct amount of each ingredient is added. A stirrer is activated whenever ingredients are added. The bottling plant is again monitored by sensors to ensure the correct amount of drink is added to each bottle, and that the right amount of carbon	What Is an Automated System? (reference.com) Resources > Computer Science > Igcse > 0478 Unit 7 Automated and Emerging Technologies PG Online





	 Outline various applications of sensors Describe why automated system can log and work effectively than humans To justify how sensors and microprocessors are used in control applications 	dioxide gas is added to each bottle. The whole process is computer-controlled and is totally automatic. a Describe how the sensors, actuators and central computer would be used to monitor and control this bottling plant automatically. You may wish to add/show sensors and actuators in the diagram given above. b Finally, describe the advantages and disadvantages of fully automating this bottling plant (you can assume that none of the ingredients used in making the drink are harmful)	
Physical Education	 Social and cultural influences Ethics and other issues Coursework 	Topics: Risk and risk assessment, Injuries, Access and participation in sport, Sponsorship, Media, Global events, Professional and amateur performers, Technology in sport, The sports development pyramid, Leisure, recreation and the growth of leisure activities, Performance-enhancing drugs and Blood doping. Sports: Athletics, Rounders, football and basketball	www.bbc.co.uk www.teachpe.com
Art	Present a personal and coherent response that realises intentions and demonstrates an understanding of Art and Design.	Evaluate their own work, review, reflect, refine and arrange works for submission.	www.studentartguide.com https://www.bbc.co.uk/bitesize/guide s/zgtngdm/revision/1





French	Natural environment:	Writing :	https://papers.gceguide.com/Cambri
		- To write paragraphes and conversation to Share your ideas	dge%20IGCSE/French%20-
	 L'environnement et moi 	about your plan to protect the environment using different	%20Foreign%20Language%20(0520
	- Los chongomento de climent	grammar tools : l'hypothèse, il faut+ infinitif/ on doit+ infinitif	<u>)/2022/</u>
	 Les changements de climat 	/le subjonctif and give their opinion.	https://www.legifrance.gouv.fr/jorf/id/
	 Le temps qu'il fait 	Reading :	JORFTEXT000020506972
		 Practice different types of texts about 	https://wallstreetenglish.fr/fiches-
	 Il faut+ infinitif/ on doit +infinitif 	(environment+climate) using the IGCSE past papers :	anglais/carriere/vocabulaire-
	 Le participe présent 	https://papers.gceguide.com/Cambridge%20IGCSE/French	environnement-ecologie-en-anglais
		%20-%20Foreign%20Language%20(0520)/2022/	https://www.podcastfrancaisfacile.co
	 Si + présent+ futur 	Listening :	<u>m/wp-</u>
	 Subjonctif 	 Practice different Listening tasks about 	content/uploads/2022/01/liste_vocab
		(environment+climate) using the IGCSE past papers :	ulaire_ecologie.pdf
	 Les points cardinaux 	https://papers.gceguide.com/Cambridge%20IGCSE/French	https://www.podcastfrancaisfacile.co
	La gérandif	<u>%20-%20Foreign%20Language%20(0520)/2022/</u>	m/vocabulaire/liste-vocabulaire-
	Le gérondif	<u>Speaking :</u>	ecologie-pdf.html
		To create a podcast about your plan to protect the environment	https://bonjourdefrance.com/lessons/
		using different grammar tools : l'hypothèse, il faut+ infinitif/ le	a2/grammaire/870
		subjonctif on doit+ infinitif and give their opinion.	https://www.youtube.com/watch?v=9
			<u>TWfnanWwPo</u>





Arabic (Arabs)	TOPIC	*	https://www.youtube.com/watch?v=H
	شعر	يحلل النص في سياقه التاريخي والاجتماعي	<u>3nEHlqxFqc</u>
	مالك بن الريب		https://ar.wikipedia.org/wiki/%D8%A
	Learning objectives:	يتتبع الأثر الذي يتركه أسلوب الكاتب ، واستخدامه للتقنيات البلاغية *	<u>3%D8%A8%D9%88_%D8%A7%D9</u>
	أن يحلل النص في سياقه التاريخي والاجتماعي		<u>%84%D8%B7%D9%8A%D8%A8_%</u>
	أن يتتبع الأثر الذي يتركه أسلوب الكاتب	يقارن بين النص الشعري ونص آخر *	D8%A7%D9%84%D9%85%D8%AA
	واستخدامه للتقنيات البلاغية	يكتب موضوعا وصفيا باستخدام الاستعارة *	<u>%D9%86%D8%A8%D9%8A</u>
	TOPIC	يعين الاستعارة في النصوص *	https://www.youtube.com/watch?v=N
	استجابة لنص أدبي -	ينتج فقرة تتضمن التشبيه التمثيلي *	<u>EPU5jnTTys</u>
	Learning أن يقارن بين النص الشعري ونص آخر *	يكتب استجابة لنص أدبي *	
	أن يكتب استجابة لنص أدبي-		
Islamic Education	أدب الحوار . 1 القرأن والإعجاز العلمي .2		https://www.youtube.com/watch?v =IKI1SkELeVY





مصادر التشريع الإسلامي .3 الأهداف يوضح آداب الحوار وصفات المحاور .1 يبين أهمية الإعجازز العلمي .2 يستنتج أهمية الاجتهاد في استنباط بعض .3 الأحكام الشرعية	يدلل على آداب الحوار من خلال القرآن السيرة النبوية . 1 يبحث عن الإعجاز العلمي في القرآن الكريم . 2 يحدد بعض مصادر التشريع الاجتهادية . 3	https://www.youtube.com/watch?v =u79EI_unrtM https://www.youtube.com/watch?v =jvIJDy8H_SU
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Moral Education	 Living a Moderate Life Recognise and articulate the benefits of living a moderate life, both physically and emotionally and making responsible choices. Explain and understand the factors that lead to addiction, including the factors that influence people to start using addictive substances or addictive habits. 	 Write a short summary of what a balanced diet should include. Discuss the meaning of the saying "An optimist sees the glass as half full, rather than half empty." Give three reasons why having a healthy work-life balance is important in leading a moderate lifestyle. Give two reasons why being positive is an important part of a moderate lifestyle. What are the benefits of living a moderate life? 	https://www.youtube.com/watch?v=A XWYIEWAeU8
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